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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/616,639	HWANG ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thuy V. Tran	2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment submitted on 03/04/2005.
2. ☒ The allowed claim(s) is/are 2-9,11-13,19 and 20.
3. ☒ The drawings filed on 09 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

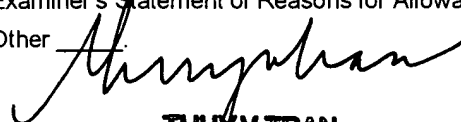
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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**THUY V. TRAN  
PRIMARY EXAMINER**

### **DETAILED ACTION**

This is a response to the Applicants' amendment submitted on March 4<sup>th</sup>, 2005. In virtue of this amendment:

- Claims 1, 10, and 14-18 are canceled; and thus,
- Claims 2-9, 11-13, and 19-20 are now presented in the instant application.

#### ***Allowable Subject Matter***

1. Claims 2-9, 11-13, and 19-20 are allowed.

#### ***Reasons for Allowance***

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A deflection yoke for a cathode ray tube including a ferrite core having a funnel-shaped body, an inner surface, and an outer surface, the inner surface of a cross-section of the ferrite core comprising a third section having a non-circular shape and being connected to the second section, wherein the third section of the inner surface has a shape of interconnected segments of three circles, each of a different radius, in combination with the remaining claimed limitations as called for in independent claim 2 (claims 3 and 7-9 are allowed since they are dependent on claim 2);
- A deflection yoke for a cathode ray tube including a ferrite core having a funnel-shaped body, an inner surface, and an outer surface, the inner surface of a cross-section of the ferrite core comprising a third section having a non-circular shape and being connected to the second section, wherein the third section of the inner surface has a shape of a segment of a circle and two pairs of substantially straight lines

including a pair of vertical lines and a pair of horizontal lines, in combination with the remaining claimed limitations as called for in independent claim 4;

- A deflection yoke for a cathode ray tube including a ferrite core having a funnel-shaped body, an inner surface, and an outer surface, the inner surface of a cross-section of the ferrite core comprising a third section having a non-circular shape and being connected to the second section, wherein the third section of the inner surface has a shape of interconnected segments of three circles and two substantially straight lines, in combination with the remaining claimed limitations as called for in independent claim 5;
- A deflection yoke wherein the first and second sections have surfaces rougher than a surface of the third section, in combination with the remaining claimed limitations as called for in independent claim 6;
- A deflection yoke for a cathode ray tube, wherein the second section of the inner surface has a shape of interconnected segments of three circles and each is of a different radius, in combination with the remaining claimed limitations as called for in independent claim 11;
- A deflection yoke for a cathode ray tube including a ferrite core having a funnel-shaped body, an inner surface, and an outer surface, the inner surface of a cross-section of the ferrite core comprising a second section having a non-circular shape and being connected to the first section, wherein the second section of the inner surface has a shape of a segment of a circle and two pairs of substantially straight

lines including a pair of vertical lines and a pair of horizontal lines, in combination with the remaining claimed limitations as called for in independent claim 12;

- A deflection yoke for a cathode ray tube, wherein the second section of the inner surface has a shape of interconnected segments of three circles and two substantially straight lines, in combination with the remaining claimed limitations as called for in independent claim 13;
- A cathode ray tube, wherein the third section of the inner surface has a shape of interconnected segments of three circles and each is of a different radius, in combination with the remaining claimed limitations as called for in independent claim 19; and
- A cathode ray comprising a third section having a non-circular shape and being connected to the second section, wherein the third section of the inner surface has a shape of interconnected segments of three circles, each of a different radius, in combination with the remaining claimed limitations as called for in independent claim 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Citation of relevant prior art***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2821

Prior art Iwaya et al. (U.S. Patent No. 6,696,907) discloses a deflection yoke.

Prior art Kojima (U.S. Patent No. 6,452,321) discloses a deflection device for a CRT.

Prior art Hishiki et al. (U.S. Patent No. 6,046,538) discloses a deflection yoke and yoke core for the deflection yoke.

Prior art Matsubara (U.S. Patent No. 5,942,845) discloses a deflection yoke apparatus.

***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

05/15/2005



**THUY V. TRAN  
PRIMARY EXAMINER**